

## Data sheet for three-phase Squirrel-Cage-Motors



Ordering data : **1LG4208-4AA66**

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

### Electrical data :

|                                  |   |        |            |        |        |        |
|----------------------------------|---|--------|------------|--------|--------|--------|
| Rated motor voltage :            | (6) 400 VD/690 VY, 50 Hz, 460 VD, 60 Hz |        |            |        |        |        |
| Frequency :                      | 50 Hz                                   |        | 60 Hz      |        |        |        |
| Rated power :                    | 37.00 kW                                |        | 42.50 kW / |        |        |        |
| Rated motor speed :              | 1465 1/min                              |        | 1765 1/min |        |        |        |
| Rated motor torque :             | 241.2 Nm                                |        | 230.0 Nm   |        |        |        |
| Rated motor current (IE) :       | VD                                      | VY     | VD         | VY     |        |        |
|                                  | 71.0 A                                  | 41.2 A | 67.0 A     |        |        |        |
| Starting / rated motor current : | 6.5                                     |        | 6.5        |        |        |        |
| Breakdown / rated motor          | 3.0                                     |        | 3.0        |        |        |        |
| Starting / rated motor torque :  | 2.6                                     |        | 2.6        |        |        |        |
| Efficiency %                     | 4/4                                     | 3/4    | 2/4        | 4/4    | 3/4    | 2/4    |
|                                  | 91.2 %                                  | 91.5 % | 91.0 %     | 93.0 % | 93.3 % | 92.9 % |
| Power factor :                   | 0.83                                    | 0.78   | 0.67       | 0.85   | 0.85   | 0.71   |
| Efficiency class :               | IE1                                     |        | IE1        |        |        |        |
|                                  | no value                                |        |            |        |        |        |

### Mechanical data :

|  |                                 |         |
|--|---------------------------------|---------|
| Sound pressure level 50Hz/60Hz (load) :  | 66.0(A)                         | 70.0(A) |
| Moment of inertia :                      | 0.23 kg m <sup>2</sup>          |         |
| Bearing DE :                             | 6212 ZC3                        |         |
| Bearing NDE :                            | 6212 ZC3                        |         |
| Type of bearing :                        | Locating bearing NDE (standard) |         |
| Condensate drainage holes :              | Yes                             |         |
| Regreasing device :                      | No                              |         |
| Lubricants :                             | Esso Unirex N3                  |         |
| Grease lifetime/Relubrication interval : | 40000 h                         |         |
| Quantity of grease for relubrication :   | null g                          |         |
| External earthing terminal :             | Yes                             |         |
| Coating :                                |                                 |         |

### Explosion protection :

Type of protection : without (standard)

### Environmental conditions :

|                                |                        |
|--------------------------------|------------------------|
| Ambient temperature :          | -20.0 °C - +40 °C      |
| Altitude above sea level :     | 1000 m                 |
| Standards and specifications : | IEC, DIN, ISO, VDE, EN |

### General data :

|  |                      |
|--|----------------------|
| Frame size :                                 | 200 L                |
| Type of construction :                       | (6) B35              |
| Weight in kg, without optional accessories : | 230.00 kg            |
| Frame material :                             | Cast iron            |
| Degree of protection :                       | IP 55                |
| Method of cooling, TEFC :                    | IC 411               |
| Vibration class :                            | A                    |
| Insulation :                                 | 155(F) to 130(B)     |
| Duty type :                                  | S1 - continuous duty |
| Direction of rotation :                      | Bi-directional       |

### Terminal box :

|                                  |                       |
|----------------------------------|-----------------------|
| Material of terminal box :       | Aluminum              |
| Type of terminal box :           | gk 430                |
| Contact screw thread :           | M6                    |
| Max. cross-sectional area :      | 25.00 mm <sup>2</sup> |
| Cable diameter from ... to ... : | 27.0mm - 35.0mm       |
| Cable entry :                    | 2xM50x1,5             |
| Cable gland<br>null              | 2 plugs               |

### Special design :